使用说明

整个工具包含两个部分:

- 1. vbf-tool.exe
- 2. 需要生成的vbf文件配置脚本,例如vbb.json

```
1 | vbf-tool.exe <vbb.json>
```

vbb.json 说明

```
1
    {
 2
        "VBF1":
        {
 4
            "SourceFile": "./ti-proc.bin",
 5
            "TargetFile": "./sample_bin.vbf",
 6
            "VBFVersion": "2.6",
            "SwType": "EXE",
 8
            "SwPartNum": "8894082291",
            "ECUaddr": "1432",
 9
10
            "SwVersion": "A",
11
            "ImageOffset": "16777216",
12
            "CreateVerificationBlock": true,
            "VerificationBlockStartAddr": "4294960640",
13
14
            "Compressed": false,
15
            "Sort": true,
16
            "Group": true
        },
17
18
        "VBF2":
19
20
            "tbd": "tbd"
21
        }
22
    }
```

profiling test

case1: 输入源文件989KB, 消耗时间13ms

```
C:\d_vault\git_trace\vbf-tool\vbf-tool>target\release\vbf-tool.exe vbb_script.json
good luck!!!
Elapsed time:13.2584ms
```

```
🐝 sample_bin.vbf
 abe Header
100 Block 0x01000000
10 Block 0xFFFFE600
                                            This file is generated by VBF CONVERT ver. 5.10.0
                                                                 DO NOT EDIT !
                                   // Volvo software part number
sw_part_number = "8894082291";
                                  // Software Version:
    sw_version = "A";
                                   // Volvo software part type: Executable
sw_part_type = EXE;
                                   // Data format identifier: 0x00 = Uncompressed, 0x10 = Compressed
data_format_identifier = 0x00;
                                   // ECU Address:
   ecu_address = 0x1432;
                                   };
                                  // Start address of the hash table
  verification_block_start = 0xFFFFE600;
                                  // Length of the hash table
  verification_block_length = 0x0000002C;
                                  // Root hash value
verification_block_root_hash = 0x815970AB76027A54035A02B7C7B8BD8C7A8DC27D108ED7D194D80FD3C6591F9F;
                                                                                                                                                      > 1 of 1
```

case2: 输入源文件1.41GB, 消耗时间12.5s

C:\d_vault\git_trace\vbf-tool\vbf-tool>target\release\vbf-tool.exe vbb_script.json
good luck!!!
Elapsed time:12.5782513s

```
abc Header
Block 0x01000000
                                        This file is generated by VBF CONVERT ver. 5.10.0
Block 0xFFFFE600
                                // Volvo software part number
sw_part_number = "8894082291";
                                // Software Version:
                                   sw_version = "A";
                                // Volvo software part type: Executable
sw_part_type = EXE;
                               // Data format identifier: 0x00 = Uncompressed, 0x10 = Compressed
data_format_identifier = 0x00;
                                // ECU Address:
   ecu_address = 0x1432;
                                // Erase information
                                   };
                                // Start address of the hash table
  verification_block_start = 0xFFFFE600;
                                // Length of the hash table
                                    verification_block_length = 0x00000002C;
                                   verification_block_root_hash = 0x3C50A095B0372A5C1CADD070602E8C54A00A87C4FBB4F709777905E136FB6DE0;
                                // Blocks grouped
                                // Blocks: 2;
// Bytes: 1522916249;
Uncompressed
                                ☐ View compressed data Goto offset
```

★注意事项:

• 当前版本只支持处理bin格式的源文件,所以需要提前将hex或者srec格式的文件导出到bin文件

• 该工具只能转换成VBF格式的文件,还需要配合吉利提供的签名工具生成带有签名的vbf文件